Microbiological Process for the Production of 7α -Substituted 11α -Hydroxy Steroids, 7α , 17α -Substituted 11β -Halogen Steroids That Can be Produced Therefrom, Their Process for Production and Use as Well as Pharmaceutical Preparations That Contain These Compounds, as Well as 7α -Substituted Estra-1,3,5(10)-trienes That Can be Produced Therefrom

Abstract:

A novel method of synthesis for the manufacture of upstream products for the production of compounds with general formulas 8, 10, and 12 is described. In this synthesis, compounds with general formula 4,B are produced in a microbiological reaction. The meanings of R^7 , R^{10} , R^{11} , R^{13} , R^{17} and R^{17} as well as of the grouping U-V-W-X-Y-Z are indicated in the claims.